

AMENDMENTS TO THE CLAIMS:

Listing of Claims:

The present listing of the claims replaces all past listings of the claims:

1. (Currently amended) Diagnostic procedure for identification of a disorder of ~~a~~ the pancreas comprising by determining ~~an~~ the overall content of all known pancreatic elastases (iso-enzymes) in the serum, secretions or excretions of a patient, ~~so as to thereby diagnose a disorder of the pancreas.~~
2. (Currently amended) The procedure ~~Procedure~~ according to claim 1, wherein the ~~fact~~ that identification is by administering means of immuno-chemical systems using monoclonal or polyclonal antibodies, ~~being single specific antibodies or cross-reactive antibodies~~ that can ~~singly and specifically or cross-reactively recognize~~ recognise all elastase iso-enzymes with the ~~exception of the~~ amino-acid sequence Thr-Met-Val-Ala-Gly-Gly-Asp-Ile-Arg.
3. (Currently amended) The procedure ~~Procedure~~ according to claim 2, comprising obtaining wherein the ~~fact that the antibodies used are obtained~~ by means of antigens selected from the group consisting of the complete elastases 1, 2 and 3 or of their sub-units wherein the ~~The~~ amino-acid sequence Thr-Met-Val-Ala-Gly-Gly-Asp-Ile-Arg is not used as an elastase fragment or as an immunologically effective partial sequence thereof.
4. (Currently amended) The procedure ~~Procedure~~ according to claim 3, wherein the ~~fact~~ that the following synthetic peptides are primarily used as antigens which after the antigens immunisation of animals induce antibodies which cross-reactively recognize ~~recognise~~ several elastases but do not concern the amino-acid sequence Thr-Met-Val-Ala-Gly-Gly-Asp-Ile-Arg:

NH₂-A-V-K-E-G-P-E-Q-V-I-P-I-N-COOH
 NH₂-Y-T-N-G-P-L-P-D-K-L-Q-Q-A-R-COOH
 NH₂-R-S-G-C-N-G-D-S-G-G-P-L-N-COOH
 NH₂-G-P-L-N-C-P-T-E-D-G-G-W-Q-COOH
 NH₂-G-T-E-A-G-R-N-S-W-P-S-Q-I-COOH
 NH₂-H-N-L-S-Q-N-D-G-T-E-Q-Y-V-COOH
 NH₂-W-G-K-T-K-T-N-G-Q-L-A-COOH
 NH₂-V-S-S-R-G-C-N-V-S-R-K-P-T-COOH
 NH₂-G-G-E-E-A-R-P-N-S-W-P-W-Q-COOH
 NH₂-S-S-S-R-T-Y-R-V-G-L-G-R-H-N-COOH
 NH₂-K-D-W-N-S-N-Q-I-S-K-G-N-D-COOH
 NH₂-G-P-L-N-C-Q-A-S-D-G-R-W-COOH
 NH₂-G-A-L-P-D-D-L-K-Q-G-R-L-COOH
 NH₂-S-L-Q-Y-E-K-S-G-S-F-Y-COOH
 NH₂-F-G-C-N-T-R-R-K-P-T-V-F-T-COOH

5. (Currently amended) The procedure ~~Proceedure~~ according to claim 1, wherein the ~~fact~~ ~~that~~ antibodies are used singly or in a combination in an immuno-chemical identification system.

6. (Currently amended) Immunological test kits for a ~~the~~ diagnosis and progress check of diseases of the pancreas using stool or body fluids containing one or more of the antibodies used in claim 2.

7. (Currently amended) Procedure for obtaining monoclonal and/or polyclonal antibodies that react specifically with human elastase I in stool or body fluids and are induced by standard the usual immunization immunisation ~~immunisation~~ procedures, comprising administering ~~characterised by the fact that the~~ peptides A-V-K-E-G-P-E-Q-V-I-P-I-N, Y-T-N-G-P-L-P-D-K-L-Q-Q-A-R, R-S-G-C-N-G-D-S-G-G-P-L-N and G-P-L-N-C-P-T-E-D-G-G-W-Q or immunogenic partial peptides thereof are used as antigens for the immunization ~~immunisation~~ of vertebrates, ~~especially of small mammals and birds~~ thereby obtaining monoclonal and/or polyclonal antibodies.

8. (Currently amended) The procedure ~~Procedure~~ according to claim 7, wherein ~~the fact that before immunization~~ immunisation the free peptides are coupled with suitable carrier substances, ~~primarily haemocyanine or albumin.~~
9. (Currently amended) The procedure ~~Procedure~~ according to claim 7, wherein ~~the fact that~~ polyclonal antibodies are produced using chickens as experimental animals.
10. (Currently amended) Polyclonal antibodies, ~~insofar as they were~~ produced according to claim 7.
11. (Currently amended) Monoclonal antibodies, ~~insofar as they were~~ produced according to claim 7.
12. (Currently amended) Synthetic peptide ~~Peptide~~ A-V-K-E-G-P-E-Q-V-I-P-I-N
13. (Currently amended) Synthetic peptide ~~Peptide~~ Y-T-N-G-P-L-P-D-K-L-Q-Q-A-R
14. (Currently amended) Synthetic peptide ~~Peptide~~ R-S-G-C-N-G-D-S-G-G-P-L-N
15. (Currently amended) Synthetic peptide ~~Peptide~~ G-P-L-N-C-P-T-E-D-G-G-W-Q
16. (Currently amended) Purification and detection systems for human elastase 1, comprising ~~characterised by the fact that they contain~~ at least one of the ~~invention~~ antibodies according to claim 10 or 11.
17. (Currently amended) Immunological test kits for the diagnosis and progress check of diseases of a ~~the~~ pancreas and of mucoviscidosis using stool or body fluids.

18. (Currently amended) Immunological test kits according to claim 17, wherein ~~the fact~~ that 2 different antibodies are used (Sandwich-ELISA).